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Science Abstracts Series A
January-June 1975

Author Index

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SIX-MONTHLY INDEXES TO SCIENCE ABSTRACTS

Cumulative indexes to Science Abstracts are published twice a year covering the period January-June and July-December. They comprise author and subject indexes and some specialised or 'small' indexes. For Physics Abstracts and Electrical & Electronics Abstracts the Author Index and Subject Index are published as separate volumes. In this case the Small Indexes are included in the Author Index volume.

Author index

This lists in alphabetical order all authors of papers abstracted in the abstracts journal during the six months covered by the index, together with the title of the paper. Where there are co-authors of a paper the title of the paper is given only under the name of the first author. The serial number of the paper in the abstracts journal is in the form 5-12345, ie 1975—abstract no. 12345.

'Small' indexes

These are specialised indexes which allow the user to find quickly particular types of information which might be difficult to find using the subject or author indexes.

Bibliography index

In this index reference is made to articles which contain a significant list of references or bibliography on the subjects listed.

Book index

This gives details of books received and abstracted by the abstracts journal.

Corporate author index

This is an index to those items where a corporate organisation rather than an individual person is the agent primarily responsible for the publication. Such publications typically include reports of industrial firms or of government departments or research establishments. This index replaces the previous Report and Patent assignee indexes.

Conference index

This index lists conferences for which published proceedings have been received and abstracted. Reference is given to the individual papers and their serial numbers in the abstracts journal.

Subject index

The Subject index provides an alphabetical subject key to the articles included in the abstracts journal. Some general guidance on its use is given below:

1. Look in the index for the name of the specific subject in which you are interested. In most cases this name will be a heading in the index and you will find relevant articles listed under it.
2. Occasionally you will be directed from the subject heading chosen to a different heading under which the relevant or additional articles are listed.
3. If you do not find the subject heading you first choose, try a more general heading.
4. Each entry under the heading relates to an article appearing in the abstracts journal and gives the serial number of that article in the journal preceded by the last digit of the current year, eg 5—12345; ie Abstract number 12345 in the abstracts journal for 1975.

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Entry 35105 of 2nd June 1975 title of article should read ‘Application of the parametric source to bottom and sub-bottom profiling’.

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IEEE Transactions on Broadcast and Television Receivers Title changed to: *IEEE Trans. Consum. Electron. (USA)*

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Inzhenerno-Fizicheskii Zhurnal Izdatel'stvo Akademii Nauk BSSR, Editorial address: Polesnaya 25, Minsk 13, USSR [English translation in: *J. Eng. Phys. (USA)*]

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Ion Exchange and Membranes Gordon & Breach Science Publishers Ltd., 41 and 42 William IV Street, London, WC2, England

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The Irish Astronomical Journal Armagh Observatory, Northern Ireland

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ISA Transactions Instrument Society of America, 400 Stanwix Street, Pittsburg, PA 15222 Distributed by: Plenum Press, 227 West 17th Street, New York, NY 10011, USA

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Ishikawajima-Harima Engineering Review Ishikawajima-Harima Heavy Industries Co. Ltd., 3-chome, 2-16, Toyosu, Kotoku, Tokyo, Japan

ISHM J. (USA) — (ISHMBG)
ISHM Journal Issued with: *Solid State Technol. (USA)*

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ISI Bulletin Indian Standards Institution, Manak Bhavan, 9 Bahadur Shah Zafar Marg, New Delhi 1, India

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Israel Journal of Chemistry Weizmann Science Press, P.O. Box 801, Jerusalem, Israel

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Kolloidnyi Zhurnal Editorial address: Institute of Physical Chemistry, Academy of Sciences of the USSR, Moscow, USSR [English translation in: *Colloid J. USSR (USA)*]

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Low Temperature Science Series A, Physical Sciences Institute of Low Temperature Science, Hokkaido University, Sapporo, Japan

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Machinery Lloyd International Morgan Publications Ltd., 30A York Street, Twickenham, TW1 3LJ, England

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Magnitnaya Gidrodinamika Akademiya Nauk Latviiskoi SSR, 'Zinatne', ul Smilshu 1, Riga 47, USSR [English translation in: *Magnetohydrodynamics (USA)*]

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Mathematical Proceedings of the Cambridge Philosophical Society Formerly: *Proc. Camb. Philos. Soc. (GB)* Cambridge University Press, Bentley House, 200 Euston Road, London, NW1 2DB, England

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Mathematical Spectrum Applied Probability Trust. Editorial address: Hicks Building, The University, Sheffield, S3 7RH, England

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Metall Metall-Verlag GmbH, 1 Berlin 33, Hubertusallee 18, Germany

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Metallurgical Transactions Metallurgical Society of American Institute of Mining, Metallurgical and Petroleum Engineers, 345 East 47th Street, New York, NY 10017, USA

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Metallofizika Izdatel'stvo 'Naukova Dumka', Kiev, Ul. Repina 3, USSR

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Meteorologiske Annaler Norske Meteorologiske Institutt (i samarbeid med Universitetets Institutt for Teoretisk Meteorlogi), Norway

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Meteorological Magazine Director General Meteorological Office, London Road, Bracknell, Berks RG12 2SZ, England

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Meteorologische Rundschau Springer-Verlag, D-1000 Berlin 33, Heidelberger Platz 3, Germany

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Methods of Information in Medicine F.K. Schattauer Verlag GmbH, 7 Stuttgart 1, Postfach 2945, Lenzhalde 3, Germany

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Monthly Notes of the Astronomical Society of Southern Africa South African Astronomical Observatory, P.O. Box 9. Observatory, Cape, South Africa

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New Zealand Journal of Science Department of Scientific and Industrial Research, Private Bag, Wellington, New Zealand

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Navigation Institut Francaise de Navigation, 3 avenue Octave-Greard, Paris 7, France

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Noise Control and Vibration Reduction Trade & Technical Press Ltd., Crown House, Morden, Surrey, England

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Noise Control Engineering Institute of Noise Control Engineering. Editorial address: Ray W. Herrick Laboratories, Purdue University, West Lafayette, IN 47907, USA

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NORMA-Technical Information NORMA Messtechnik Gesellschaft m.b.H., A-1111 Wien, Postfach 88, Fickeysstrasse 1-11, Austria

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Pakistan Engineer Council of the Institute of Engineers (Pakistan), Ramma, Dacca-2, Pakistan

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Pakistan Journal of Scientific and Industrial Research Pakistan Council of Scientific and Industrial Research, 39 Garden Road, Karachi 3, Pakistan

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Pakistan Journal of Science Pakistan Association for the Advancement of Science, 14 Shah Jamal Scheme, Lahore 12, Pakistan

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Saehkoe (Finland) — (SAEFAV) *Sahko Electricity in Finland* Sarkiniementie 3, 00210 Helsinki, Finland

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Scanner (GB) — (SCANAF) *Scanner* Journal of Decca Radar Ltd., Decca House, Albert Embankment, London, SE1, England

Sci-Tech News (USA) — (STNWAM) *Sci-Tech News* Science and Technology Orientated Division, Special Libraries Association, 235 Park Avenue South, New York, NY 10003, USA

Sci. & Cult. (India) — (SCINAL) *Science and Culture* Indian Science News Association, 92 Acharya Prafullachandra Road, Calcutta 9, India

Sci. & Eng. Rep. Saitama Univ. C (Japan) — (SSECBD) *Science and Engineering Reports of Saitama University, Series C* Urawa-City, Saitama-ken, Japan

Sci. & Eng. Rev. Doshisha Univ. (Japan) — (DDRKAZ) *Science and Engineering Review of Doshisha University* Science and Engineering Research Institute of Doshisha University, Kyoto, Japan

Sci. Am. (USA) — (SCAMAC) *Scientific American* 415 Madison Avenue, New York, NY 10017, USA

Sci. Dimension (Canada) — (NRSDAN) *Science Dimension* National Research Council of Canada, Ottawa K1A OR6, Canada

Sci. Electr. (Switzerland) — (SCELAT) *Scientia Electrica* Institut fur Hohere Elektrotechnik, Eidgenossische Technische Hochschule, Gloriastr. 35, 8006-Zurich, Switzerland

Sci. Light (Japan) — (SCLIAL) *Science of Light* Published by the Institute for Optical Research, Tokyo University of Education (in collaboration with the Spectroscopical Society of Japan). 400, Hyakunintyo-4, Sinyuku, Tokyo 160, Japan

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Sci. Proc. R. Dublin Soc. A (Ireland) — (SPRDAP) *Scientific Proceedings of the Royal Dublin Society, Series A* Ball's Bridge, Dublin, Ireland

Sci. Prog. (GB) — (SCPRAY) *Science Progress* Blackwell Scientific Publications, Oxford, England

Sci. Prog. Decouverte (France) — (SPDVBA) *Science Progres Decouverte* Centrale des Revues, Dunod/Gauthier-Villars, 26 Boulevard de l'Hopital, 75005 Paris, France

Sci. Rep. Kanazawa Univ. (Japan) — (SRKAAT) *Science Reports of Kanazawa University* Faculty of Science, Kanazawa University, Kanazawa, Japan

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Sci. Rev. (Yugoslavia) — (SRVUA8) *Scienca Revuo* Prof. B. Popovic, Ognjena Price 80, Beograd, Yugoslavia

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Scr. Metall. (USA) — (SCRMBU) *Scripta Metallurgica* Pergamon Press, Maxwell House, Fairview Park, Elmsford, NY 10523, USA

Sdelovaci Tech. (Czechoslovakia) — (SDTEAM) *Sdelovaci Technika* Publishers of Technical Literature, Spalena 51, 113 02 Praha 1, Czechoslovakia

Sea Technol. (USA) — (SEATAD) *Sea Technology* Compass Publications Inc., Suite 1000, 1117 North 19th Street, Arlington, VA 22209, USA

Seismol. Bull. (Canada) — (CESSCS) *Seismological Bulletin. Seismological Series of the Earth Physics Branch* Department of Energy, Mines and Resources, Ottawa, Canada

Semin. Nucl. Med. (USA) — (SMNMAB) *Seminars in Nuclear Medicine* Henry M. Stratton, Inc., Publishers, 757 Third Avenue, New York, NY 10017, USA

SERT J. (GB) — (SERJAY) *SERT Journal* Society of Electronic and Radio Technicians, 8 Charing Cross Road, London. WC2H OHP, England

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SIAM J. Appl. Math. (USA) — (SMJMAP) *SIAM Journal on Applied Mathematics* Society for Industrial and Applied Mathematics, 33 South 17th Street, Philadelphia, PA 19103, USA

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SID J. (USA) — (SIDJAQ) *SID Journal* Society for Information Display, 1605 Cahuenga Boulevard, Los Angeles, CA 90028, USA

Siemens Forsch.- & Entwicklungsber. (Germany) — (SFEBBL) *Siemens Forschungs- und Entwicklungsberichte (Research and Development Reports)* Springer-Verlag, D-1 Berlin 33, Heidelberger Platz 3, Germany

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Siemens-Albis Ber. (Switzerland) — (SABRBJ) *Siemens-Albis Berichte* Siemens-Albis Aktiengesellschaft, Albisriederstrasse 245, 8047 Zurich, Switzerland

SIGACT News (USA) *SIGACT News* Association for Computing Machinery, 1133 Avenue of the Americas, New York, NY 10036, USA

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SIGPLAN Not. (USA) *SIGPLAN Notices* Association for Computing Machinery, 1133 Avenue of the Americas, New York, NY 10036, USA

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Solar Physics D. Reidel Publishing Co., P.O. Box 17, Dordrecht, Netherlands

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Sov. Instrum. & Control J. (GB) — (SICJBM)
Soviet Instrumentation and Control Journal [Translation of: *Prib. & Sist. Upr. (USSR)*] Robert Maxwell & Co. Ltd., Headington Hill Hall, Oxford, OX3 OBJ, England

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Soviet Journal of Nondestructive Testing [Translation of: *Defektoskopiya (USSR)*] Consultants Bureau, 227 West 17th Street, New York, NY 10011, USA

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Soviet Journal of Nuclear Physics [Translation of: *Yad. Fiz. (USSR)*] American Institute of Physics, 335 East 45th Street, New York, NY 10017, USA

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Soviet Journal of Optical Technology [Translation of: *Opt.-Mekh. Prom.-st. (USSR)*] Optical Society of America, 2100 Pennsylvania Avenue N.W., Washington, DC 20037, USA

Sov. J. Part. & Nucl. (USA) — (SJPNA3)
Soviet Journal of Particles and Nuclei [Translation of: *Fiz. Elem. Chastits & At. Yadra (USSR)*] American Institute of Physics, 335 East 45th Street, New York, NY 10017, USA

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Soviet Journal of Quantum Electronics [Translation of: *Kvantovaya Elektron., Moskva (USSR)*] American Institute of Physics, 335 East 45th Street, New York, NY 10017, USA

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Soviet Physics - Lebedev Institute Reports [Translation of: *Sb. Kratk. Soobshch. Fiz. AN SSSR Fiz. Inst. N.N. Lebedeva*] Allerton Press Inc., 150 Fifth Avenue, New York, NY 10011, USA

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Soviet Physics-Crystallography [Translation of: *Kristallografiya (USSR)*] Published by the American Institute of Physics with the cooperation of the American Crystallographic Association. Subscription address; American Institute of Physics, 335 East 45th Street, New York, NY 10017, USA

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Soviet Physics-Semiconductors [Translation of: *Fiz. & Tekh. Poluprovodn. (USSR)*] American Institute of Physics, 335 East 45th Street, New York, NY 10017, USA

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Sov. Powder Metall. & Met. Ceram. (USA) — (SPMCAV)
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Space Science Instrumentation D. Reidel Publishing Co., P.O. Box 17, Dordrecht, Netherlands

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Spectrochimica Acta. Volume B, Atomic Spectroscopy Pergamon Press Ltd., Headington Hill Hall, Oxford, OX3 OBW, England

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Spectroscopy Letters Marcel Dekker, 95 Madison Avenue, New York, NY 10016, USA

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Vychislitel'nye Metody i Programmirovanie Izdatel'stvo Moskovskogo Universiteta, Moskva, K-9, Ul. Gertsena d. 5/7, USSR

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Vysokomolekulyarnye Soedineniya, Seriya A Akademiya Nauk USSR, Leninskii Prosp., Moskva, USSR [English translation in: *Polym. Sci. USSR (GB)*]

Waerme (Germany) — (WARMAP)
Warme Adelheidstrasse 28, 8 Munich 13, Germany

Waerme- & Stoffuebertrag. (Germany) — (WASBBW)
Warme- und Stoffubertragung Springer-Verlag, 1 Berlin 33, Heidelberger Platz 3, Germany

Water Power (GB) — (WAPOAL)
Water Power Title changed to: *Int. Water Power & Dam Constr. (GB)*

Water Resour. Res. (USA) — (WRERAQ)
Water Resources Research American Geophysical Union, 1707 L Street, N.W., Washington, DC 20036, USA

Water, Air & Soil Pollut. (Netherlands) — (WAPLAC)
Water, Air and Soil Pollution D. Reidel Publishing Co., P.O. Box 17, Dordrecht, Netherlands

Wave Electron. (Netherlands)
Wave Electronics Elsevier Scientific Publishing Co., P.O. Box 211, Amsterdam, Netherlands

Wear (Switzerland) — (WEARCJ)
Wear Elsevier Sequoia S.A., P.O. Box 851, 1001 Lausanne 1, Switzerland

Weather (GB) — (WTHRAL)
Weather Cromwell House, High Street, Bracknell, Berks. RG12 1DP, England

Weld. & Met. Fabr. (GB) — (WLMFAM)
Welding and Metal Fabrication IPC Science and Technology Press Ltd., IPC House, 32 High Street, Guildford, Surrey, England

Weld. Eng. (USA) — (WEEGA4)
Welding Engineer Jefferson Publications Inc., 5811 Dempster Street, Morton Grove, IL 60053, USA

Weld. Prod. (GB) — (WEPRAO)
Welding Production [Translation of: *Svar. Proizvod. (USSR)*] Welding Institute, Abington Hall, Abington, Cambridge, England

Werkstatt & Betr. (Germany) — (WKUBA9)
Werkstatt und Betrieb Carl Hanser Zeitschriftenverlag GmbH, 8 Munchen 27, Kolbergerstrasse 22, Germany

Western Electric Eng. (USA) — (WELEAX)
Western Electric Engineer Western Electric Co., 195 Broadway, New York, NY 10007, USA

Westinghouse Eng. (USA) — (WNHEA8)
Westinghouse Engineer P.O. Box 2278, 3 Gateway Center, Pittsburgh, PA 15230, USA

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Wiadomsci Elektrotechniczne Wydawnictwa Czasopism Technicznych N.O.T., 00-001 Warszawa 1, Poland

Wiad. Telekomun. (Poland) — (WDTEAW)
Wiadomosci Telekomunikacyjne Editorial address: Warszawa, Kazimierzowska 52, Poland

Wire World Int. (Germany) — (WWINAZ)
Wire World International Jahnstrasse 36, D-4 Dusseldorf, Germany

Wireless World (GB) — (WIWOAA)
Wireless World IPC Electrical-Electronic Press Ltd., Dorset House, Stamford Street, London, SE1 9LU, England

Wiss. Ber. AEG-Telefunken (Germany) — (WBATB3)
Wissenschaftliche Berichte AEG-Telefunken Elitera Verlag, 1 Berlin 33 (Grunewald), Fritz-Wildungstrasse 22, Germany

Wiss. Z. Friedrich-Schiller Univ. Jena, Math. Naturwiss. Reihe (Germany) — (WZFMA4)
Wissenschaftliche Zeitschrift der Friedrich-Schiller-Universitaet Jena, Mathematisch-Naturwissenschaftliche Reihe Friedrich-Schiller Universitaet, Jena, Am Anger 24, Germany

Wiss. Z. Humboldt-Univ. Berl. Math.-Naturwiss. Reihe (Germany) — (WZHMAE)
Wissenschaftliche Zeitschrift der Humboldt-Universitat zu Berlin. Mathematisch-Naturwissenschaftliche Reihe 108 Berlin, Unter den Linden 6, Germany

Wiss. Z. Karl-Marx-Univ. Leipz. Math.-Naturwiss. Reihe (Germany) — (WZMNA8)
Wissenschaftliche Zeitschrift Karl-Marx-Universitat Leipzig. Mathematisch-Naturwissenschaftliche Reihe 701 Leipzig, Ritterstrasse 14, Germany

Wiss. Z. Martin-Luther-Univ. Halle-Wittenberg (Germany) — (WMHMAP)
Wissenschaftliche Zeitschrift der Martin-Luther-Universitat Halle-Wittenberg 401 Halle (Saale), August-Bebel-Strasse 13, Germany

Wiss. Z. Tech. Hochsch. Chem. 'Carl Schorlemmer' Leuna-Merseburg (Germany) — (WZTLA3)
Wissenschaftliche Zeitschrift der Technischen Hochschule fur Chemie 'Carl Schorlemmer' Leuna-Merseburg 42 Merseburg, Geusaer Strasse, Germany

Wiss. Z. Tech. Hochsch. Ilmenau (Germany) — (WZTHAP)
Wissenschaftliche Zeitschrift der Technischen Hochschule Ilmenau Strasse der Jungen Techniker 21, Ilmenau, Germany

Wiss. Z. Tech. Hochsch. Karl-Marx-Stadt (Germany) — (WZTKAY)
Wissenschaftliche Zeitschrift der Technischen Hochschule Karl-Marx-Stadt Friedrich-Engels Strasse 85, Karl-Marx-Stadt, Germany

Wiss. Z. Tech. Hochsch. Otto von Guericke Magdeb. (Germany) — (WCGMAI)
Wissenschaftliche Zeitschrift der Technischen Hochschule Otto von Guericke Magdeburg Boleslav-Beirut-Platz 5, Magdeburg, Germany

Wiss. Z. Tech. Univ. Dres. (Germany) — (WZTUAU)
Wissenschaftliche Zeitschrift der Technischen Universitat Dresden Mommsenstrasse 13, Dresden A227, Germany

Wiss. Z. Univ. Rostock. Ges.- & sprachwiss. Reihe (Germany) — (WZRGAC)
Wissenschaftliche Zeitschrift der Universitat Rostock. Gesellschafts- und Sprachwissenschaftliche Reihe Rostock, Vogelsang 13/14, Germany

Work Study & Manage. Serv. (GB) — (WSMAAM)
Work Study & Management Services Institute of Work Study Practitioners, 9/10 River Front, Enfield, Middx. EN1 3TE, England

X-Ray Focus (GB) — (XRFOAX)
X-Ray Focus Ilford Ltd., Tavistock Square, London, WC1, England

Yad. Fiz. (USSR) — (IDFZA7)
Yadernaya Fizika Ulitsa Vavilova 44, Korp 2, Moskva V-333, USSR [English translation in: *Sov. J. Nucl. Phys. (USA)*]

Yogyo-Kyokai-Shi (Japan) — (YGKSA4)
Yogyo-Kyokai-Shi (Journal of the Ceramic Society of Japan) 22-17, 2-chome, Hyakunin-cho, Shinjuku-ku, Tokyo 160, Japan

Z. Allg. Wissenschaftstheor. (Germany) — (ZAWTA2)
Zeitschrift fur Allgemeine Wissenschaftstheorie (Journal for General Philosophy of Science) Franz Steiner Verlag, 6200 Wiesbaden, Bahnhofstrasse 39, Postfach 743, Germany

Z. Angew. Math. & Mech. (Germany) — (ZAMMAX)
Zeitschrift fur angewandte Mathematik und Mechanik Akademie-Verlag GmbH, 108 Berlin, Leipziger Strasse 3-4, Germany

Z. Angew. Math. & Phys. (Switzerland) — (ZAMPA8)
Zeitschrift fur angewandte Mathematik und Physik Verlag Birkhauser, Postfach 4000, Basel 24, Switzerland

Z. Anorg. & Allg. Chem. (Germany) — (ZAACAB)
Zeitschrift fur Anorganische und Allgemeine Chemie Johann Ambrosius Barth, DDR-1199 Leipzig, Bruhl 34-40, Germany

Z. Eisenbahnwes. & Verkehrstech. (Glasers Ann.) (Germany) — (ZEVGAK)
Zeitschrift fur Eisenbahnwesen und Verkehrstechnik (Glasers Annalen) Georg Siemens Verlagsbuchlandlung, 1 Berlin 30, Lutzwstrasse 105/106, Germany

Z. Elektr. Inf.- & Energietech. (Germany) — (ZEIZAC)
Zeitschrift fur Elektrische Informatins- und Energietechnik Akademische Verlagsgesellschaft Geest & Portig K.G., DDR 701 Leipzig, Sternwartenstrasse 8, Germany. Formerly: Hochfrequenztech. & Elektroakust. (Germany) and Wiss. Z. Elektrotech. (Germany)

Z. Flugwiss. (Germany) — (ZEFLAN)
Zeitschrift fur Flugwissenschaften Friedr. Vieweg & Sohn GmbH, 33 Braunschweig, Burgplatz 1, Germany

Z. Kristallogr. (Germany) — (ZEKGAX)
Zeitschrift fur Kristallographie Akademische Verlagsgesellschaft, 6 Frankfurt am Main, Cronstettenstrasse 6 a, Germany

Z. Math. Logik & Grundlagen Math. (Germany) — (ZMLGAQ)
Zeitschrift fur Mathematische Logik und Grundlagen der Mathematik Deutscher Buch-Export und Import GmbH, 701 Leipzig, Leninstrasse 16, Germany

Z. Metallk. (Germany) — (ZEMTAE)
Zeitschrift fur Metallkunde Dr.Riederer-Verlag GmbH., D-7 Stuttgart 1, Johannesstrasse 60, Postfach 447, Germany

Z. Naturforsch. a (Germany) — (ZENAAU)
Zeitschrift fur Naturforschung (a): Astrophysik, Physik und physikalische Chemie 7082, Oberkochen, Lenghalde 21, Germany

Z. Oper. Res. A. (Germany) — (ZORTB8)
Zeitschrift fur Operations Research, Serie A: Theorie Physica-Verlag Rudolf Liebing KG, D-87 Wurzburg 2, Werner von Siemens Strasse 5, Germany

Z. Oper. Res. B (Germany) — (ZORPBU)
Zeitschrift fur Operations Research, Serie B: Praxis Physica-Verlag Rudolf Liebing KG, D-87 Wurzburg 2, Werner von Siemens Strasse 5, Germany

Z. Phys. A (Germany) — (ZEPYAA)
Zeitschrift fur Physik A (Atoms and Nuclei) Springer-Verlag, D-6900 Heidelberg 1 Postfach 105 280, Germany

Z. Phys. B (Germany) — (ZEPYAA)
Zeitschrift fur Physik B (Condensed Matter and Quanta) Formerly: *Phys. Condens. Matter (Germany)* Springer-Verlag, D-6900 Heidelberg 1, Postfach 105 280, Germany

Z. Phys. Chem.,Frankfurt (Germany) — (ZPCFAX)
Zeitschrift fur physikalische Chemie. Neue Folge Akademische Verlagsgesellschaft, Cronstettenstrasse 6a, 6 Frankfurt am Main, Germany

Z. Phys. Chem.,Leipzig (Germany) — (ZPCLAH)
Zeitschrift fur physikalische Chemie Akademische Verlagsgesellschaft Geest und Portig K.-G., Sternwartenstrasse 8, 701 Leipzig, Germany

Z. Vermessungswes. (Germany) — (ZTVRAM)
Zeitschrift fur Vermessungswesen Verlag Konrad Wittwer, 7000 Stuttgart 1, Nordbahnhofstrasse 16, Postfach 147, Germany

Zagadnienia Drgan Nieliniowych (Poland) — (ZDNIAD)
Zagadnienia Drgan Nieliniowych (Nonlinear Vibration Problems) Warszawa, Swietokrzyska 21, Room 335, Poland

Zavod. Lab. (USSR) — (ZVDLAU)
Zavodskaya Laboratoriya 2-i, Obydenskii per., d. 14, Moskva, G-34, USSR [English translation in: *Ind. Lab. (USA)*]

Zeiss Inf. (Germany) — (ZEISAP)
Zeiss Information Carl Zeiss, Oberkochen/ Wurtt, Germany

Zeiss Mitt. (Germany) — (ZMTOAM)
Zeiss Mitteilungen Carl Zeiss, 7082 Oberkochen/Wurttemberg, Postfach 35/36, Germany

Zesz. Nauk. Politech. Lodz. Elektr. (Poland) — (ZNPEAD)
Zeszyty Naukowe Politechniki Lodzkiej Elektryka Redakcja Wydawnictw Naukowych Politechniki Lodzkiej. Lodz. Ul. Gdanska 155, Poland

Zh. Eksp. & Teor. Fiz. (USSR) — (ZETFA7)
Zhurnal Eksperimentalnoi i Teoreticheskoi Fiziki Akademiya Nauk SSSR, Leninskii Prosp. 14, Moskva Editorial address: Varob'evskoe Shosse 2, Moskva V-334, USSR [English translation in: *Sov. Phys.-JETP (USA)*]

Zh. Eskp. & Teor. Fiz. Pis'ma (USSR) — (ZFPRAU)
Zhurnal Eksperimentalnoi i Teoreticheskoi Fiziki. Pis'ma v Redaktsiyu Akademiya Nauk SSSR, Leninskii Prosp. 14, Moskva Editorial address: Varob'evskow Shosse 2, Moskva V-334, USSR [English translation in: *JETP Lett. (USA)*]

Zh. Nauchn. & Prikl. Fotogr. & Kinematogr. (USSR) — (ZNPFAG)
Zhurnal Nauchnoi i Prikladnoi Fotografii i Kinematografii Izdatel'stvo 'Nauka', Moskva, USSR

Zh. Prikl. Mekh. & Tekh. Fiz. (USSR) — (ZPMFAF)
Zhurnal Prikladnoi Mekhaniki i Tehknicheskoi Fiziki Sovetskaya 20, Novosibirsk, USSR [English translation in: *J. Appl. Mech. & Tech. Phys. (USA)*]

Zh. Prikl. Spektrosk. (USSR) — (ZPSBAX)
Zhurnal Prikladnoi Spektroskopii Editorial address: Institut Fiziki AN BSSR, Leninskii Prosp. 70, Minsk GSP, USSR [English translation in: *J. Appl. Spectrosc. (USA)*]

Zh. Strukt. Khim. (USSR) — (ZSTKAI)
Zhurnal Strukturnoi Khimii Editorial address: Director, Institute of Inorganic Chemistry, Siberian Branch, Academy of Sciences of the USSR, USSR [English translation in: *J. Struct. Chem. (USA)*]

Zh. Tekh. Fiz. (USSR) — (ZTEFA3)
Zhurnal Tekhnicheskoi Fiziki Izdatel'stvo 'Nauka', Leningrad,

JOURNALS ABSTRACTED COMPLETELY

Selection of articles from any journal included in the list of Journals depends on the subject of the articles and their quality.

A number of these journals however are central to the INSPEC subject field and of a quality such that, virtually without exception, all articles are regularly abstracted. These journals are listed below.

Acta Crystallogr. A (Denmark)
Acta Electron. (France)
Acta Metall. (USA)
Acta Phys. Austriaca
Acta Phys. Acad. Sci. Hung. (Hungary)
Acta Phys. Pol. A (Poland)
Acta Phys. Pol. B (Poland)
Acta Phys. Sin. (China)
Acta Polytech. Scand. Ee. (Finland)
Acustica (Germany)
Adv. Phys. (GB)
Akust. Zh. (USSR)
Am. J. Phys. (USA)
Ann. Phys. (France)
Ann. Phys. (Germany)
Ann. Phys. (USA)
Appl. Opt. (USA)
Appl. Phys. (Germany)
Appl. Phys. Lett. (USA)
Appl. Spectrosc. (USA)
Arch. Elektron. & Uebertragungstech. (Germany)
Arch. Elektrotech. (Germany)
Arch. Elektrotech. (Poland)
Astrofizika (USA)
Astron. & Astrophys. (Germany)
Astron. & Astrophys. Suppl. Ser. (Switzerland)
Astron. J. (USA)
Astrophys. & Space Sci. (Netherlands)
Astrophys. J. (USA)
Astrophys. J. Lett. Ed. (USA)
Astrophys. J. Suppl. (USA)
Astrophys. Lett. (GB)
Aust. J. Phys. (Australia)
Autom. & Remote Control (USA)
Automatisme (France)
BBC Eng. (GB)
Bell Syst. Tech. J. (USA)
C. R. Hebd. Seances Acad. Sci. B (France)
Can. J. Phys. (Canada)
Chem. Phys. Lett. (Netherlands)
Chin. J. Phys. (Taiwan)
Commun. ACM (USA)
Comput. Biol. & Med. (GB)
Comput. J. (GB)
Comput. Phys. Commun. (Netherlands)
Comput. Programs Biomed. (Netherlands)
Comput. Surv. (USA)
Computing (Austria)
Cryst. Lattice Defects (GB)
Cybernetics (USA)
Czech. J. Phys. B (Czechoslovakia)
Electr. Eng. Jap. (USA)
Electr. Technol. USSR (GB)
Electron. Engineering (GB)
Electron. Lett. (GB)
Elektronika (Poland)
Elektrotech. Obz. (Czechoslovakia)
Elektrotech. Z. (ETZ) A (Germany)
Elektrotechnika (Hungary)
Energy Convers. (GB)
Exp. Tech. Phys. (Germany)
Ferroelectrics (GB)
Fizika (Yugoslavia)
Fortschr. Phys. (Germany)
Frequenz (Germany)
High Temp. Sci. (USA)
IBM Syst. J. (USA)
Icarus (USA)
IEEE J. Quantum Electron. (USA)
IEEE J. Solid-State Circuits (USA)
IEEE Trans. Aerosp. & Electron. Syst. (USA)
IEEE Trans. Antennas & Propag. (USA)
IEEE Trans. Acoust., Speech & Signal Process. (USA)
IEEE Trans. Autom. Control (USA)
IEEE Trans. Biomed. Eng. (USA)
IEEE Trans. Broadcast. (USA)
IEEE Trans. Circuits & Syst. (USA)
IEEE Trans. Commun. (USA)
IEEE Trans. Comput. (USA)
IEEE Trans. Consum. Electron. (USA)
IEEE Trans. Educ. (USA)
IEEE Trans. Electr. Insul. (USA)
IEEE Trans. Electromagn. Compat. (USA)
IEEE Trans. Electron Devices (USA)
IEEE Trans. Eng. Manage. (USA)
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IEEE Trans. Ind. Appl. (USA)
IEEE Trans. Ind. Electron. & Control Instrum. (USA)
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Indian J. Phys.
Indian J. Pure & Appl. Phys.
Indian J. Theor. Phys.
Inf. & Control (USA)
Int. J. Circuit Theory & Appl. (GB)
Int. J. Control (GB)
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Izv. Akad. Nauk SSSR Ser. Fiz.
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J. Acoust. Soc. Am. (USA)
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J. Phys. Soc. Jap. (Japan)
J. Plasma Phys. (GB)
J. Radio Res. Lab. (Japan)
J. Vac. Sci. & Technol. (USA)
Jap. J. Appl. Phys. (Japan)
JETP Lett. (USA)
Lett. Nuovo Cimento (Italy)
Marconi Rev. (GB)
Microelectron. & Reliab. (GB)
Mol. Phys. (GB)
Mon. Not. R. Astron. Soc. (GB)
Nachrichtentech. Elektron. (Germany)
Nachrichtentech. Z. (Germany)
Nucl. Fusion (Austria)
Nucl. Instrum. & Methods (Netherlands)
Nucl. Phys. A (Netherlands)
Nucl. Phys. B (Netherlands)
Nuovo Cimento A (Italy)
Nuovo Cimento B (Italy)
Opt. & Spectrosc. (USA)
Opt. Acta (GB)
Optik (Germany)
Part. Accel. (GB)
Philos. Mag. (GB)
Phys. Fenn. (Finland)
Phys. Fluids (USA)
Phys. Lett. A (Netherlands)
Phys. Lett. B (Netherlands)
Phys. Norv. (Norway)
Phys. Rev. A (USA)
Phys. Rev. B (USA)
Phys. Rev. C (USA)
Phys. Rev. D (USA)
Phys. Rev. Lett. (USA)
Phys. Scr. (Sweden)
Phys. Status Solidi a (Germany)
Phys. Status Solidi b (Germany)
Physica (Netherlands)
Plasma Phys. (GB)
Post. Off. Electr. Eng. J. (GB)
Power Eng. (Acad. Sci. USSR) (USA)
Pr. Inst. Lacznosci (Poland)
Proc. IEEE (USA)
Proc. Inst. Electr. Eng. (GB)
Proc. R. Soc. A (GB)
Prog. Theor. Phys. (Japan)
Radio & Electron. Eng. (GB)
Radio Eng. & Electron. Eng. (USA)
Radio Sci. (USA)
Rep. Prog. Phys. (GB)
Rev. Mex. Fis. (Mexico)
Rev. Mod. Phys. (USA)
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Rev. Sci. Instrum. (USA)
Ric. Autom. (Italy)
Rundfunktech. Mitt. (Germany)
Sci. Electr. (Switzerland)
Scr. Metall. (USA)
SIAM J. Control (USA)
Simulation (USA)
Slaboproudy Obz. (Czechoslovakia)
Solid-State Commun. (USA)
Solid-State Electron. (GB)
Sov. Astron. AJ (USA)
Sov. J. Opt. Technol. (USA)
Sov. J. Quantum Electron. (USA)
Sov. Phys. – Acoust. (USA)
Sov. Phys. – Crystallogr. (USA)
Sov. Phys. – Dokl. (USA)
Sov. Phys. – JETP (USA)
Sov. Phys. – Lebedev Inst. Rep. (USA)
Sov. Phys. – Semicond. (USA)
Sov. Phys. – Solid-State (USA)
Sov. Phys. – Tech. Phys. (USA)
Sov. Phys. – Usp. (USA)
Tech. Mitt. PTT (Switzerland)
Tech. Mitt. RFZ (Germany)
Telecommun. & Radio Eng. Pt. 1 (USA)
Telecommun. & Radio Eng. Pt. 2 (USA)
Ukr. Fiz. Zh. (USSR)
Yad. Fiz. (USSR)
Z. Elektr. Inf. & Energietech. (Germany)
Z. Naturforsch. a (Germany)
Z. Phys. A (Germany)
Z. Phys. B (Germany)

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English Letters	Languages	Cyrillic Letters	English Letters	Languages	Cyrillic Letters
a	R S B	А а	p	R S B	П п
b	R S B	Б б	r	R S B	Р р
ch	R S B	Ч ч	s	R S B	С с
d	R S B	Д д	sh	R S B	Ш ш
e	R S B	Е е	shch	R	Щ щ
ë	R	Ё ё	sht	B	Щ щ
é	R	Э э	t	R S B	Т т
ê	R B	Ѣ ѣ	t’	R B	ТЬ ть
f	R S B	Ф ф	t’	S	Ћ ћ
g	R S B	Г г	th	R	Ѳ ѳ
i	R S B	И и	ts	R S B	Ц ц
ī	R	І і	t-s	R S B	ТС тс
ǐ	R B	Й й	u	R S B	У у
j	S	Џ џ	ŭ	B	Ъ ъ
j’	S	Ђ ђ	ū	B	Ѫ ѫ
k	R S B	К к	v	R S B	В в
kh	R S B	Х х	y	S	Ј ј
l	R S B	Л л	ȳ	R	Ы ы
l’	R B	ЛЬ ль	y̆	R	Ѵ ѵ
l’	S	Љ љ	ya	R B	Я я
m	R S B	М м	yu	R B	Ю ю
n	R S B	Н н	z	R S B	З з
n’	R B	НЬ нь	zh	R S B	Ж ж
n’	S	Њ њ	‘	R	Ъ ъ
o	R S B	О о	’	R B	Ь ь

The use of 1’, n’ and t’ in Russian and Bulgarian (where they are not transliterations of a single letter, but merely 1, n or t followed by the soft sign) is included to emphasise the fact that they are used for single letters only in Serbian.

‘Shch’ and ‘sht’ invariably represent the letter III, in Russian and Bulgarian, respectively, since the pairs of letters (IIIh in Russian and IIIT in Bulgarian) seem never to occur consecutively in the respective languages.

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